Bruhat Bangalore Mahanagara Palike

EAST ZONE
HEBBAL DIVISION

Estimate

Name of the Work: Detailed Estimate for Construction of Drain parallel to railway line in Basaveshwara Layout.

Estimate Cost Rs.20.00 Lakhs

Hebbal Sub-Division

I.06

BRUHAT BANGALORE MAHANAGARA PALIKE

Name of work: Construction of drain parallel to Railway line in Basaveshwara layout in Ward no-18

Estimate Cost Rs.20,00,000.00.

Sl No	Description of work		Dimensions L	B	D	Quantity	Rate	Unit	Amount
1	Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clodsincluding loading & unloading. cost of labour Conveying the excavated earth to distance of upto 10kms including loading and unloading charges (P-126 I No. 19 10)								
	Masonary darin	1	125.00	0.90	0.80	90.00			
		1	50.00	0.60	0.80	24.00			
	Cross road1	2	150.00	0.45	0.60	81.00			
	Sides	2	150.00	0.45	0.40	54.00			
	Cross road2	2	150.00	0.50	0.60	90.00			
	Sides	2	150.00	0.45	0.40	54.00			
		2	46.00	0.45	0.60	(12.42) 21·6			
					Total	(405.42)	153.14	Cum	62088.00
	Basic Rate	54.00				414·60			
		87.80							
	Total	141.80							
	Area Weightage @ 8%	11.34							
	Total	**153.14**							
2	Removing B.S. Slab drain and stacking, Refixing stone slabs of drains and pointing in C.M. (1:3) (P-28 I No. 5 32 & 5.33)								
	MSD	1	70.00	2.00		140.00			
	Cross road1	1	150.00	1.35		202.50			
		1	105.00	0.90		94.50			
		1	45.00	1.35		60.75			
	Cross road2	2	150.00	0.90		270.00			
		2	46.00	0.90		(41.40) 54·00			
						(609.15) 811.95			
	Deduct 25%					(202.29) 205·44			
					Total	(606.86)	107.47	Sqm	65220.00
	Basic Rate	41.18				616·31			
		58.33							
	Total	99.51							
	Area Weightage @ 8%	7.96							
	Total	**107.47**							
3	Providing granite slabs of 750mm roughly dressed and fixed in CM 1:6 including fixing curing etc., complete. (P 28 I No 5.31.1)								
						202.29			
					Total	(202.29)	315.36	Sqm	63793.00
	Basic Rate	292.00				205·44			
	Area Weightage @ 8%	23.36							
	Total	**315.36**							
4	Dismantling size stone masonry in clay mortar and stacking the size stone within a radius of 50m and removing the debris to a distance upto 200m. (P-268 I No. 37.48)								
		4	8.00	0.60	0.80	15.36			
		2	4.00	0.45	0.40	1.44			
					Total	16.80	120.96	Cum	2032.00
	Basic Rate	112.00							
	Total	112.00							
	Area Weightage @ 8%	8.96							

	Total	**120.96**							
5	Earthwork in excavation of foundation of structures as per drawing and technical specification including setting out, construction of shorting and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom, back filling the excavation earth to the extent required and utilizing the remaining earth locally for road work complete as per specifications. (i) Ordinary soil – A. Manual Means (i) Depth upto 3m. MORTH Specification No.304.(P-151 I No. 19.22)								
	Culverts	2	8.00	2.50	0.60	24.00			
	Culverts	1	4.00	1.80	0.45	3.24			
	Drain	1	45.00	0.75	0.75	25.31			
	Flagging	1	150.00	0.45	0.30	20.25			
		2	45.00	0.50	0.30	13.50			
		2	45.00	0.10	0.30	2.70			
					Total	**89.00**	**296.78**	**Cum**	**26415.00**
	Basic Rate	187.00							
	Loading & unloading	87.80							
	Total	274.80							
	Area Weightage @ 8%	21.98							
	Total	**296.78**							
6	Providing and laying in position plain cement concrete of mix M7.5 with OPC cement @180 kgs with 40mm and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregates @ 0.57cum machine mixed, Concrete laid in layers not exceeding 15cms. thick well compacted in foundation and plinth. including cost of all materials.labour , HOM of machinary, curing complete as per specification (P 12 I.No.4.3)								
	Culverts	2	8.00	2.50	0.15	6.00			
		1	4.00	1.80	0.15	1.08			
		2	150.00	0.60	0.15	27.00			
		2	23.00	0.60	0.15	4.14			
		1	90.00	0.90	0.15	12.15			
		1	30.00	0.60	0.15	2.70			
		1	150.00	0.50	0.15	11.25			
		1	150.00	0.10	0.15	2.25			
		2	45.00	0.50	0.15	6.75			
		1	23.00	4.50	0.15	15.53			
		1	86.00	1.50	0.15	19.35			
					Total	**108.20**	**3884.76**	**Cum**	**420312.00**
	Basic Rate	3597.00							
	Total	**3597.00**							
	Area Weightage @ 8%	287.76							
	Total	**3884.76**							
7	Providing and laying cement concrete using 20mm and down size granite jelly of ready mixed concrete (RMC) for R.C.C works laid in 15 cms thick layers and well compacted vibrating, curing, finishing with necessary cement mortar, from works and scaffolding to withstand pumping of concrete, with all lead and lifts etc., complete (exclusive of cost of steel, fabrication charges and plastering.) Ready mixed Cement concrete M-20 (1:1.5:3) for raft foundation, column footing, main and secondary beams.(P-19 I.No.4.48.1)								
		1	23.00	4.50	0.10	10.35	13.50		
		1	86.00	1.50	0.10	12.90			
					Total	**23.25**	**5639.76**	**Cum**	**131124.00**
	Basic Rate	5222.00							
	Total	**5222.00**							
	Area Weightage @ 8%	417.76							
	Total	**5639.76**							

8	KSRRB 2600-3 (ii) Providing and fixing 20mm thick fibre board in expansion joint complete as per drawing and Technical specification complete as per specifications MORTH specification No.2605.(P-18 I.No.~~4.48.1~~) 31.3								
		3	4.50			13.50			
		9	1.50			13.50			
					Total	27.00	132.84	Cum	3587.00
	Basic Rate	123.00							
	Total	**123.00**							
	Area Weightage @ 8%	9.84							
	Total	**132.84**							
9	Providing and constructing granite/ trap/basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high , bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specification. (P-26 I.No.5.9)								
		4	8.00	(0.75+.60)/2	1.20	25.92			
		2	4.00	0.45	0.60	2.16			
		2	30.00	0.45	0.40	10.80			
		1	150.00	0.45	0.40	27.00			
		2	45.00	0.45	0.40	16.20			
						82.08			
	Deduct available stone					10.08			
					Total	72.00	3223.80	Cum	232114.00
	Basic Rate	2985.00							
	Total	**2985.00**							
	Area Weightage @ 8%	238.80							
	Total	**3223.80**							
10	Providing and constructing granite/ trap/basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high , bond stones at two m apart in each course including cost of materials, labour, curing complete as per specification. (P-26 I.No.5.9) with available stones								
		16 8x60%				10.08			
					Total	10.08	2324.70	Cum	23433.00
	Basic Rate	2985.00							
	Deduct availbe stones	832.50							
	total	2152.50							
	Area Weightage @ 8%	172.20							
	Total	**2324.70**							
11	Providing and constructing burnt brick masonry with approved quality of non-modular bricks of standard size of class designation 50 (table moulded) with cement mortar 1:6 for basement and superstructure including cost of material, labour charges, scaffolding, curing complete as per specifications. Specification no. KBS 6.2 (P-30 I.No.6.6)								
		1	150.00	0.100	0.40	6.00			
		2	45.00	0.100	0.40	3.60			
					Total	9.60	4872.96	Cum	46780.00
	Basic Rate	4512.00							
	Total	**4512.00**							
	Area Weightage @ 8%	360.96							
	Total	**4872.96**							

12	Providing and laying in position plain cement concrete of mix M15 with OPC cement @240 kgs ,with 20mm and down size graded granite metal coarse aggregates @ 0.878cum and fine aggregates @ 0.459cum machine mixed, Concrete laid in layers not exceeding 15cms. thick well compacted in foundation and plinth & Cills, including cost of all materials,labour , HOM of machinary, curing complete as per specification .(P-12 I.No.4.6)								
		4	8.00	0.60	0.10	1.92			
		3	4.00	0.60	0.10	0.72			
		2	150.00	0.60	0.15	27.00			
		2	28.00	0.60	0.15	4.14			
		1	90.00	0.90	0.15	12.15			
		1	30.00	0.60	0.10	1.80			
		1	150.00	0.50	0.10	7.50			
		1	150.00	0.10	0.10	1.50			
		2	45.00	0.50	0.10	4.50			
		1	150.00	0.20	0.10	3.00			
		2	45.00	0.20	0.10	1.80			
		2	8.00	0.90	0.15	2.16			
					Total	~~68.19~~ 69.45	**4409.64**	**Cum**	**300693.00**
	Basic Rate	4083.00							
	Total	4083.00							
	Area Weightage @ 8%	326.64							
	Grand Total	**4409.64**							
13	Providing ruled pointing to coursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications..(P-120 I.No.15.3)								
		4	8.00	1.20		38.40			
		2	4.00	0.60		4.80			
		2	150.00	0.40		120.00			
		1	150.00	0.40		60.00			
		1	150.00	0.40		60.00			
		2	45.00	0.40		36.00			
					Total	**319.20**	**71.60**	**Sqm**	**22856.00**
	Basic Rate	66.30							
	Total	**66.30**							
	Area Weightage @ 8%	5.30							
	Grand Total	**71.60**							
14	Providing 18mm thick cement plaster in single coat with cement mortar 1:6, to brick masonry including rounding off corners wherever required smooth rendering, ; Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.(P-120 I.No.15.17)								
		1	150.00	0.40		60.00			
		2	45.00	0.40		36.00			
					Total	**96.00**	**147.96**	**Sqm**	**14204.00**
	Basic Rate	137.00							
	Total	**137.00**							
	Area Weightage @ 8%	10.96							
	Grand Total	**147.96**							
15	Providing granite slabs of selected quality roughly dressed and fixed in CM 1:6 including fixing curing etc., complete.-od- 10cms. Thick .(P-28 I.No.5.31.2)								
		1	150.00	0.90		135.00			
		2	45.00	0.90		81.00			
		1	30.00	1.80		54.00			
		1	70.00	2.00		140.00			

					Total	410.00	486.00	Sqm	199260.00
	Basic Rate	450.00				417.80			
	Total	450.00							
	Area Weightage @ 8%	36.00							
	Grand Total	**486.00**							
16	KSRB 5-8.1: providing one line dressing to granite stone slab/ granite stone masonry as per specifications. KBS 5.1.13 (P-26 I.No.5.17)								
	As per qty 13					410.00			
					Total	410.00	392.04	Sqm	160736.00
	Basic Rate	363.00				417.80			
	Total	363.00							
	Area Weightage @ 8%	29.04							
	Grand Total	**392.04**							
17	Providing & Laying in position reinforced cement concrete of mix 1:1.5:3 with - 20mm (M-20) and down size graded granite metal, machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintles, retaining walls, return walls, walls(any thickness) including attached plasters, columns, piers, abutment, pillars, posts, struts, buttresses, string or lacing course, parapets, coping, openings etc., anchor blocks, plain windown cills, fillets etc., complete as per specifications contained in enclosed memo HOM of machinery, curing, including cost of providing and fabricating HYSD steel 12mm tor at 15cms c/c (main) and 10mm tor at 20cms c/c (Distribution) & Providing and removing centring and shuttering et., complete as per specifications for 25cms thick drain covering slab etc., complete as per specifications and direction of the Engineer-in-Charge.								
		2	8.00	2.00		32.00			
					Total	32.00	3718.00	Sqm	118976.00
18	Providing Machine Cuttings to BS Slab								
		1	166.00	4.80		796.80			
		1	100.00	4.80		480.00			
		1	116.00	5.20		603.20	25.39		
		1	50.00	4.80		240.00			
					Total	2120.00	50.00	Rmt	106000.00
19	Miscellaneous and unforeseen charges etc. L.S								377.00
						TOTAL AMOUNT			2000000.00

Administrative Sanctioned for Rs. 20.00 Lakhs Only
(Rs. Twenty Lakhs Only)
Accorded under head P-17-1-1
Vide No. 22-12-13
Registered at Sl. No. 550 Page No. 163
Subject to conditions contained in enclosed memo
No. 171/12-13 Dt. 17-1-13
AE/EE TA (F) S.E/C.E/H.C (F)

Certificate:

1. The work spot has been inspected and found to be necessary
2. The work spot comes under BBMP limits
3. The provisions made in the estimate are necessary and minimum
4. The estimate is based on CSR of 2010-11

Executive Engineer,
Hebbal Division,
Bruhat Bangalore Mahanagara Palike

Assistant Engineer
Ward No. 18

Assistant Executive Engineer
Hebbal Sub Division
BBMP

Executive Engineer
Hebbal division
BBMP

TECHNICALLY SANCTIONED FOR

Rs. 20.00 lakhs Twenty lakhs only

Under P-17-1 POG 12-13

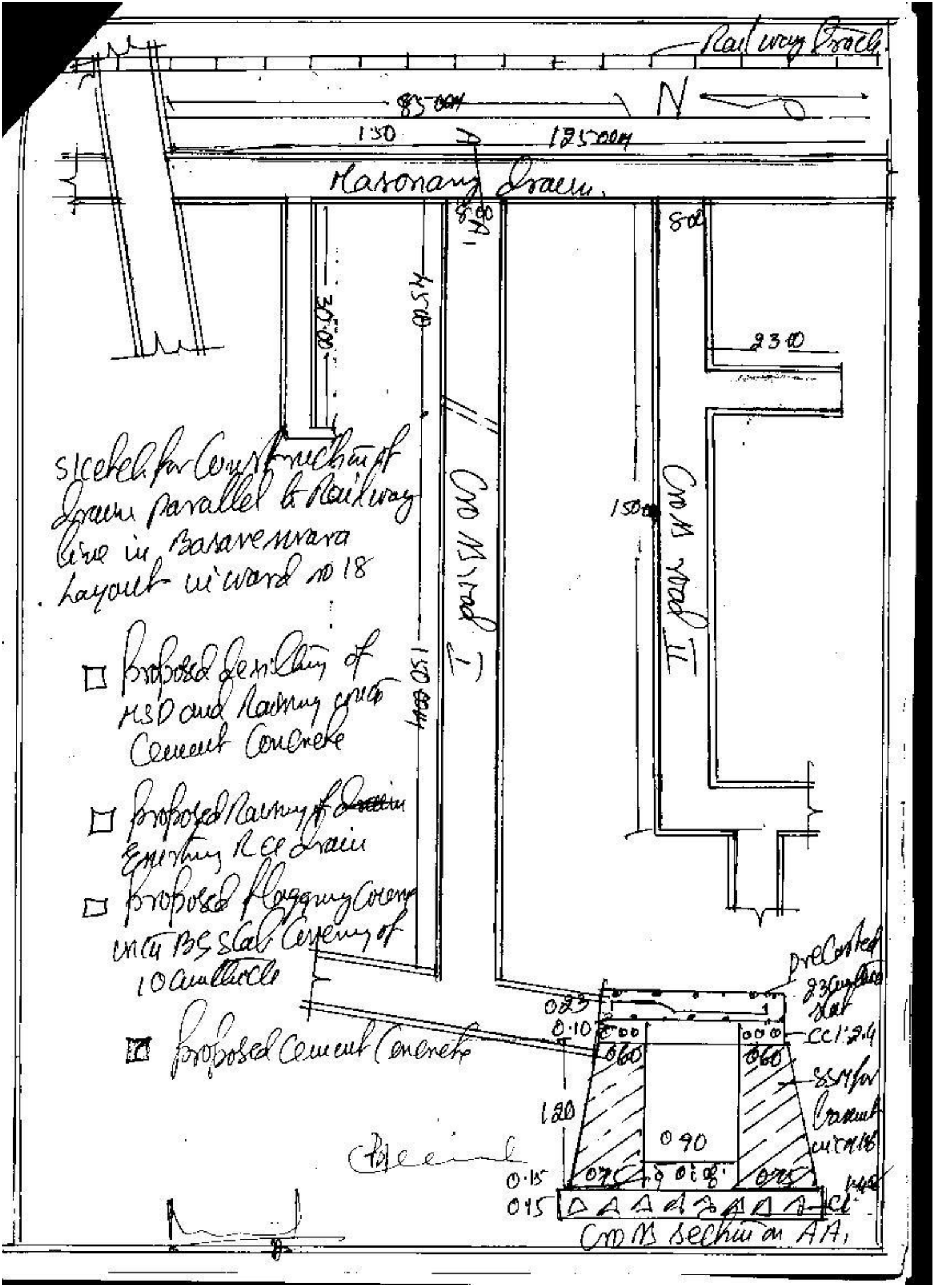
Registered as EE(H) vide No 23-271/12-13

Subject to conditions in enclosed/memo

No 171/12-13 Dt: 18/01/13

JE/AE

E.E(H)


Railway Track
N
85.00M
125.00M
1:50
Masonary Drain.
8.00
4.50
30.00
150.00M
Cross Road I
8.00
23.00
150
Cross Road II
Sketch for Construction of Drain parallel to Railway line in Basaveshwara Layout in ward no 18
Proposed Levelling of RSD and Railway side Cement Concrete
Proposed Railway side Existing RCC Drain
Proposed flagging Covering with BS slab Covering of 10 numbers
Proposed Cement Concrete
Precasted 23 numbers slab
0.23
0.10
CC 1:2:4
0.60
0.60
RR Masonry
1.20
0.90
0.15
0.15
Cross Section on AA.